

### **REMARKS**

The applicant respectfully requests reconsideration in view of the amendment and the following remarks. The applicant has rewritten claim 24 as newly added claim 28. The applicant has added one claim (claim 28) and cancelled one claim (claim 24). No fee is required for the extra claim that was added.

Claim 24 was objected to. The Examiner has withdrawn the previous rejections and has made the following new rejections. Claims 1, 3, 5-18 and 25-26 are rejected under 35 U.S.C. 102(b) as being anticipated by US 2003/0168970 (Tominaga). Claim 24 is rejected under 35 U.S.C. 102(b) as being anticipated by US 2002/0066904 (Yuan). Claims 4, 19-22 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tominaga. The applicant respectfully traverses these rejections.

#### **Claim 24 Objection**

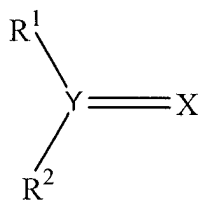
Claim 24 was objected to. The applicant has cancelled claim 24 and presented claim 24 as newly added claim 28. The applicant appreciates that Examiner pointing out the error in claim 24. The applicant believes that claim 28 is not objectionable.

#### **Rejections Over Tominaga**

Claims 1, 3, 5-18 and 25-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Tominaga. Claims 4, 19-22 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tominaga. Tominaga discloses an organic electroluminescent device comprising an emitting layer consisting of a phosphorescent dopant doped in 4,4'-bis(carbazol-9-yl) biphenyl (CBP) as the matrix material and furthermore comprising an electron transporting layer/hole blocking layer consisting of BCP (bathocuproin).

The pending application lists BCP as a hole blocking material according to the state of the art (see page 2, lines 30-32 of the applicant's specification). However, it is not correct that BCP is a hole blocking material according to formula (2) of the pending application.

The Examiner argued at page 3 of the Office Action that compound of formula (2) reads on a BCP. The compound of the formula (2) has the following structure:



Y can be a carbon and X can be chosen as NR<sup>4</sup>. However, even if R<sup>1</sup> and R<sup>2</sup> are chosen as aromatic or heteroaromatic rings and R<sup>4</sup> is chosen as heteroaromatic ring, there is no possibility that BCP is formed. **The applicant's claim 1 does not define that the substituent R<sup>4</sup> can form a ring system with the substituents R<sup>1</sup> or R<sup>2</sup>.** However, the formation of such a ring system would be required to form BCP. Therefore, Tominaga does not anticipate the applicant's claimed invention.

Furthermore, the applicant's specification states on top of page 6 that the symbol "=" used in formula (1) to (4) stands for a double bond in the sense of the Lewis notation. In contrast, in BCP there is no double bond between the carbon and the nitrogen. Even though the structure is drawn as though having located double bonds, this is only one mesomeric structure, and in fact the bonds are aromatic bonds having a bond grade in between a single bond and a double bond. This is a further reason that claim 1 as well as the dependent claims is novel with respect to Tominaga.

Furthermore, Tominaga does not give any suggestion to use a compound of any of the formulae (1) to (4) as a hole blocking material in a phosphorescent OLED as is required by the

applicant's claimed invention. Therefore, Tominaga teaches away from the applicant's claimed invention. For the above reasons, these rejections should be withdrawn.

**Rejection Over Yuan**

Claim 24 is rejected under 35 U.S.C. 102(b) as being anticipated by Yuan. The applicant believes that claim 24 as rewritten (claim 28) now further requires the limitation of claim 1. Since claim 1 was not rejected over Yuan, this rejection should be withdrawn.

In view of the above amendment, applicant believes the pending application is in condition for allowance.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 03-2775, under Order No. 14113-00013-US from which the undersigned is authorized to draw.

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Respectfully submitted,

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